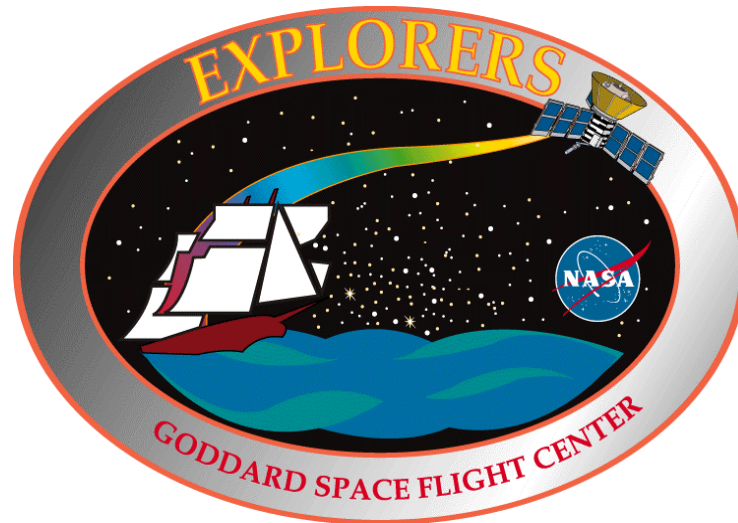




GODDARD SPACE FLIGHT CENTER

MU-SPIN Conference

Explorers Program Perspective



Jim Barrowman
Explorers Program Manager
September 22, 1999



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Explorer Program Mission Statement:

The mission of the Explorer Program is to provide frequent flight opportunities for world-class scientific investigations from space within the following space science themes:

Astronomical Search for Origins and Planetary Systems
Structure and Evolution of the Universe
The Sun-Earth Connection

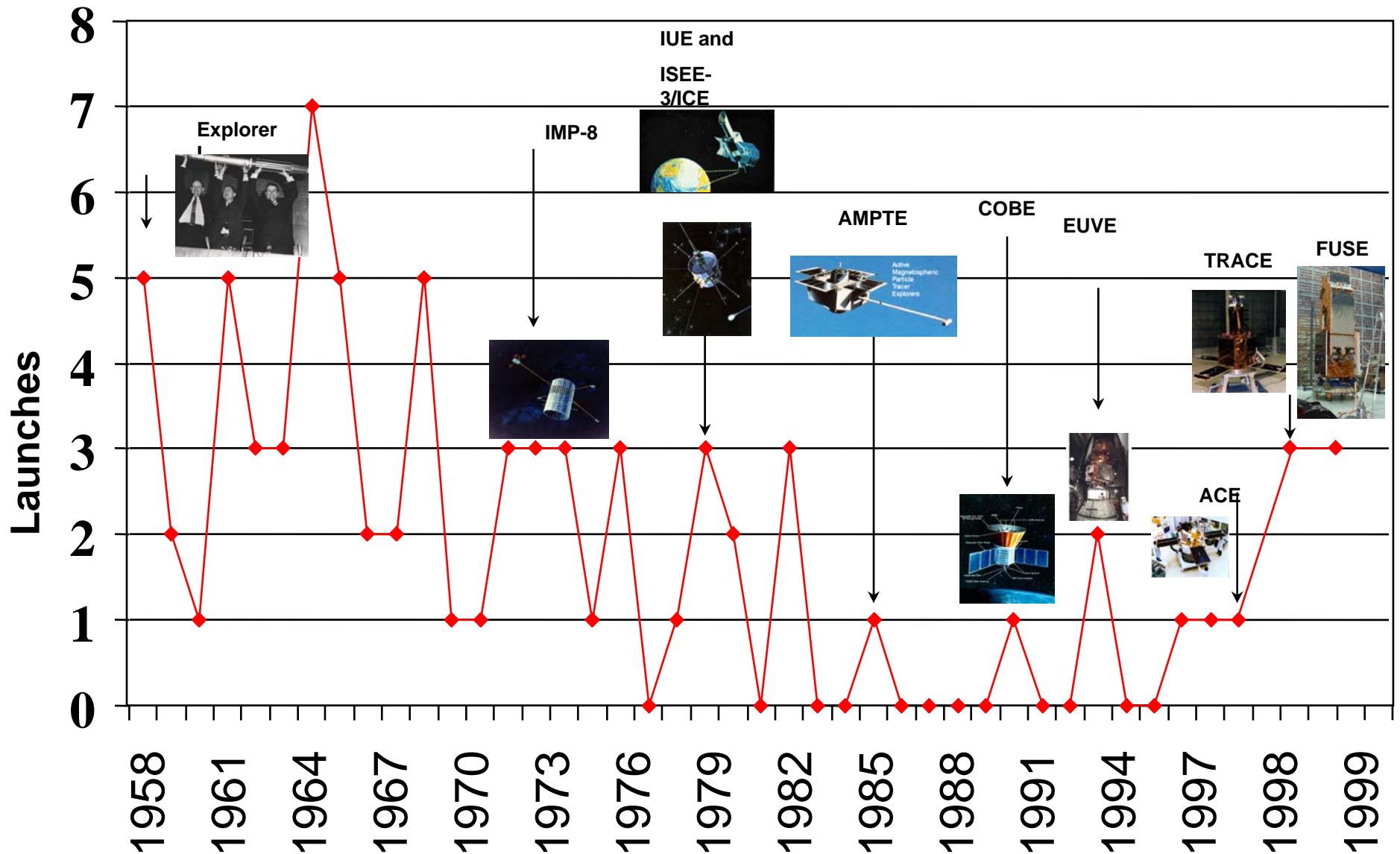
America's space exploration started with Explorer 1

Launched February 1, 1958

Discovered the Van Allen Radiation Belts

Over 75 Explorer missions have flown

A Brief History of Explorers





Explorer Program thrives on new, innovative, research ideas

- HBCU/OMUs are a mostly untapped resource
- No Explorer PIs from HBCU/OMU - Yet
- Attempt to involve HBCU/OMU via UNEX partnerships was unsuccessful. We will try again!
- NASA Wants to broaden the Space Science & Explorers research base



Frequent Explorer Space Flights

- Four launches per year in four different sizes of missions
- **MIDEX** - Medium size Explorers - \$150M
(1 per year)
- **SMEX** - Small Explorers - \$75M (1 per year)
- **UNEX** - University Explorers - \$15M
(1 per year)
- **MOpp** - Missions of Opportunity - \$35M
(flown on others' spacecraft)



Explorer Research Opportunities

- Three Announcements of Opportunity (AOs) every two years
 - Space Flight investigations
 - One each for MIDEX, SMEX, & UNEX
- One NASA Research Announcement (NRA) every two years
 - New technology development



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EXPLORERS SCHEDULE - POP 99-1

Announcements of Opportunity

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
MIDEX	▲ 3, 4	▼ 5, 6	▲ 7, 8	▼ 9, 10	▲ 11, 12	▼ 13, 14	▲ 15, 16	▼ 17, 18				
SMEX		▲ 8, 9	▼ 10, 11	▲ 12, 13	▼ 14, 15	▲ 16, 17	▼ 18, 19					
UNEX	▲ 1, 2	▲ 3-6	▲ 7-10	▲ 11-14								
TECHNOLOGY NRAs	▲	▼	▲	▼	▲	▼	▲	▼	▲	▼	▲	▼

▲ = Issued ▼ = Selected

Launch Schedule

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
MIDEX		FUSE 6/99 ▲	IMAGE 2/00 ▲	MAP 11/00 ▲		MIDEX-3 10/03 ▲		MIDEX-5 10/05 ▲		MIDEX-7 10/07 ▲		MIDEX-9 10/09 ▲
SMEX	TRACE 4/98 ▲	SWAS 12/98 ▲ WIRE 3/99 ▲	HESSI 7/00 ▲	GALEX 9/01 ▲		SMEX-8 7/03 ▲	SMEX-9 7/04 ▲	SMEX-10 7/05 ▲	SMEX-11 7/06 ▲	SMEX-12 7/07 ▲	SMEX-13 7/08 ▲	
UNEX	SNOE* 1/98 ▲	TERRIERS* 5/99 ▲		CHIPS 6/01 ▲ IMEX 6/01 ▲ CATSAT* 7/01 ▲		UNEX-3 4/03 ▲ UNEX-4 4/03 ▲	UNEX-5 4/04 ▲ UNEX-6 4/04 ▲	UNEX-7 4/05 ▲ UNEX-8 4/05 ▲		UNEX-9 4/06 ▲ UNEX-10 4/06 ▲	UNEX-11 4/07 ▲ UNEX-12 4/07 ▲	UNEX-13 4/08 ▲ UNEX-14 4/08 ▲
Missions of Opportunity			HETE II 1/00 ▲			TWINS-A 1ST QTR ▲	TWINS-B 3RD QTR ▲					

* - STEDI Missions

6/4/99

7



On the WEB

- Explorers
 - <http://explorers.gsfc.nasa.gov/>
- NASA Space Science
 - <http://space-science.nasa.gov/>